PROFILO LED 200 FC







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1- SYMBOLS

Graphic symbols used on this manual:



THIS SYMBOL INDICATES A HOT SURFACE



THIS SYMBOL INDICATES ELECTRIC SHOCK RISK



THIS SYMBOL INDICATES GENERAL RISK

t_a 40°C

THIS SYMBOL INDICATES THE MAXIMUM OPERATING AMBIENT TEMPERATURE



THIS SYMBOL MEANS "DO NOT STARE AT THE OPERATING LIGHT SOURCE"



THIS SYMBOL INDICATES PHOTOBIOLOGICAL SAFETY



THIS SYMBOL INDICATES THE EUROPEAN COMMUNITY DIRECTIVE 2012/19/EC ON WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation, use and maintenance.

The unit is not for residential use and must be installed by a qualified electrician or experienced person.

Always disconnect the device from the mains before maintenance.

The device must always be equipped with an efficient ground connection.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 36 months from the date of purchase against manufacturing material defects.

4- TECHNICAL FEATURES

DTS Product code:

03.TP038.46 PROFILO LED 200 FC 5P BLACK 03.TP044.46 PROFILO LED 200 FC 3P BLACK

Output

Single high-power 200W FULL RGBW LED with Cold White 5600K

Cold White CRI > 90

LED lifespan: 50.000 hours (70% lumen output)

Optical group

19°- 41° linear zoom

High definition zoom lens with double optical condenser lens

Color generation

28 Gel Filters Macros

Linear color temperature correction from 2700K to 8000K

Control

DMX 512 / RDM or Manual control 10 DMX channels (Default) 4-digit 7-segment LED display + 4 soft keys

Internal operating system updatable via DTS Dongle Firmware Uploader

Power supply

Full-range 100-240Vac 50-60 Hz

Consumption: 200W Max

Connections

Power supply: PowerCON TRUE1 In&Out panel connectors DMX: XLR 5 pins or XLR 3 pins In&Out panel connectors

Internal safety devices

Overvoltage and overtemperature circuits protection

Operating temperature

-10° / 40°C

Physical

IP20

Internal system with four removable shutters

Yoke featuring an exclusive sliding system with clutch for a wider tilt

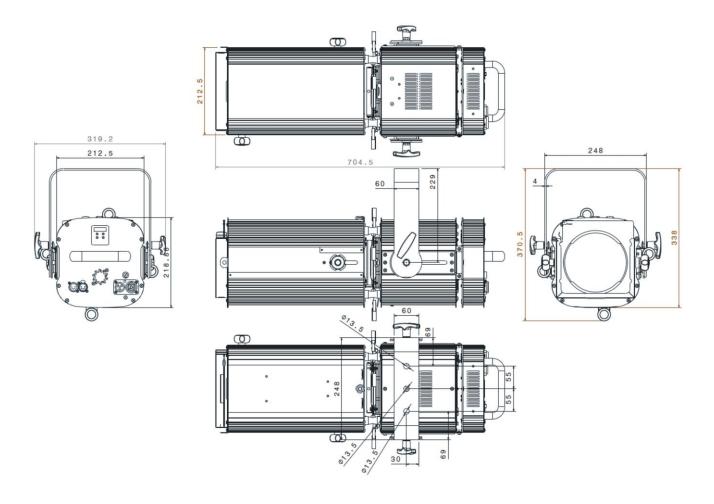
Weight: 16,9 Kg

Certifications





DIMENSIONS



5- ACCESSORIES

On board

- 1 x Soft edge filter assembly (code 02TP0047)
- 1 x Filterframe black finishing (code 02M00420.49)

In the box

- 1 x PowerCON TRUE1 female cable connector (code 0520P066)
- 1 x XLR 5 pins female cable connector (code 0508B147)
- 1 x XLR 5 pins male cable connector (code 0508B148)
- 4 x Shutter blade assembly (code 02TP0045)
- 1 x User's Manual

Optional (on request)

- Iris/diaphragm (code 03.TA225)
- Gobo holder (DTS Code 03.TA226)
- "C" Clamp G60 (Max. Load 50 Kg) (DTS Code 0521A004)
- Safety cable 3 mm x 60 cm, max capacity load 60 Kg (code 0521A010)
- DTS Dongle Firmware Uploader (code 03.LA.206)

6- IMPORTANT SAFETY INFORMATION

6.1 Fire prevention:

Replace any blown or damaged fuses only with those of identical value: T 3.15A 250V.

6.2 Prevention from electric shock:



High voltage is present inside the unit. Unplug the unit prior to performing any operation which involves touching the inside of the unit.

This equipment must be grounded, do not connect to non-grounded supplies. The use of a thermal magnetic circuit breaker is recommended for each PROFILO LED 200 FC unit. Use only AC supplies 100-240V 50-60 Hz.

PROFILO LED 200 FC should never be located in position exposed to rain or in areas of extreme humidity.

A good air ventilation is essential for proper equipment work.

6.3 Safety:



Risk Group 2 product according to EN 62471. Risk Group 2

CAUTION. Do not look directly into the light output. May be harmful to the eyes and skin.

Do not stare at the operating light source.

The luminaire should be positioned so that prolonged staring into the luminaire at a distance of 13,65 m is not expected.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

The unit is not for household use and must be installed by a qualified electrician or experienced person.

The external surface of the unit may exeed 70°C; never handle the unit until at least 5 minutes have elapsed since the unit was turned off.

Never install the unit in an enclosed area lacking sufficient air flow.

The ambient temperature should not exeed 40°C. ta 40°C

6.4 Waste Electrical and Electronic equipment (WEEE) directive



The unit, accessories and packaging should be sorted for environmetal-friendly recycling.

For EC countries: according to the European Directive 2012/19/EC for Waste Electrical and Electronic Equipment and its implementation into national right, luminaires that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

7-INSTALLATION

The unit is suitable for dry locations only.

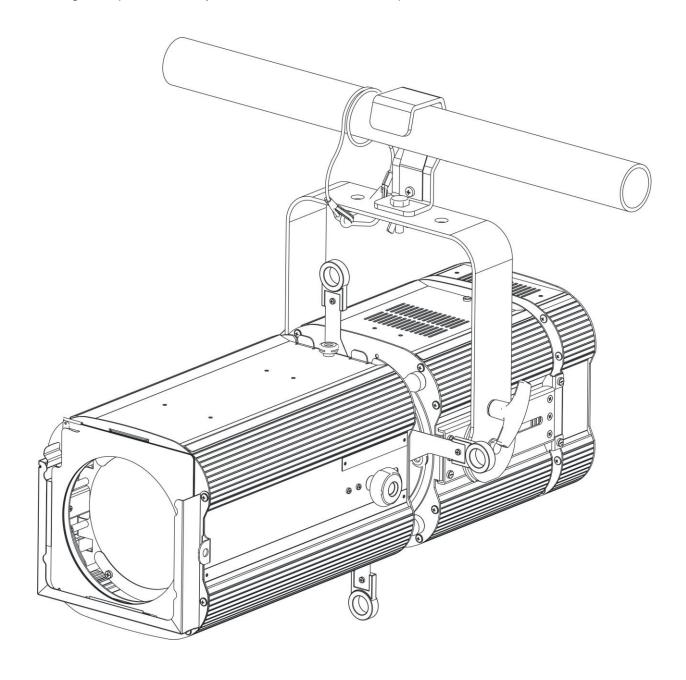
PROFILO LED 200 FC can be installed on a truss or on the ceiling.

It is recommend the use of appropriate clamps to fix the unit to the mounting surface.

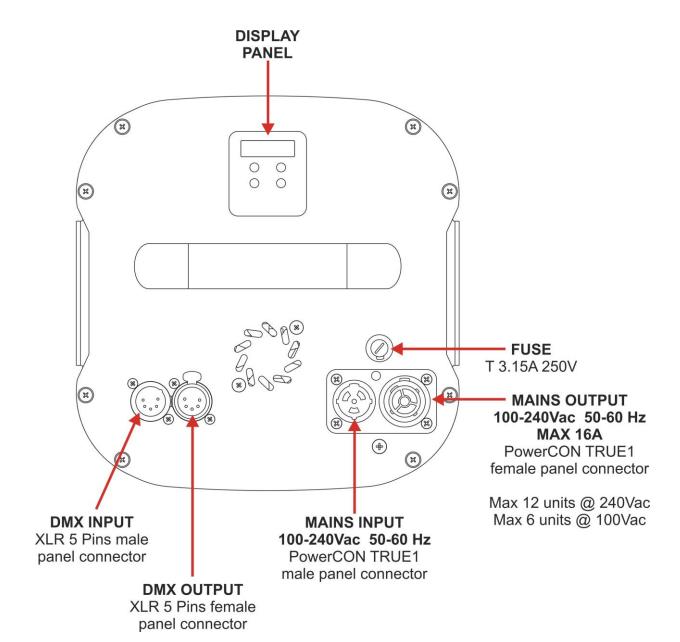
ATTENTION:

A safety cable (code 0521A010) must be securely fixed to the unit's mounting bracket and to the support structure of the projector as shown in the picture below.

Fixing clamps and safety cable are available on request.



8- INPUT / OUTPUT CONNECTIONS



9- DMX SIGNAL CONNECTION:

The unit operates using a digital DMX 512 signal.

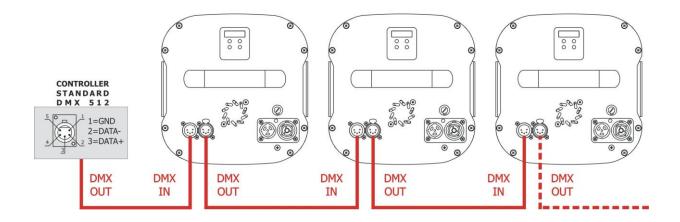
Connection between the controller and the unit or between units must be carried out using a two pair screened Ø 0.5 mm.

Ensure that the conductors do not touch each other.

Do not connect the cable ground to the DMX connector chassis.

The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first unit to the DMX IN plug of the second one.

In this way, all the projectors are cascade connected.



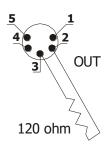
If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem

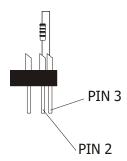
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor Between pin 2 and 3.

The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



9.1 DMX addresses

PROFILO LED 200 FC can be controlled with 10 DMX channels (Default). In order to use the unit in 10 DMX channels mode, set the following addresses on the mixer:

Projector 1 A001
Projector 2 A011 If you want to select the next projector, just add "10"
Projector 3 A021
..... A....
projector 6 A051

9.2 Selecting the DMX address

- 1) Press the UP-DOWN key until you reach the required DMX address. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
- 2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now controlled by the new DMX address.

TIPS: if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

10- RDM FUNCTIONS

By using a RDM controller it is possible to set DMX address, DMX mode and other parameters. PROFILO LED 200 FC accepts the following RDM commands:

DEVICE_INFO	To read the following parameters:
	RDM protocol version
	Fixture model ID
	Fixture type
	Software version ID
	DMX channels
	DMX mode
	DMX address Tatal sub-first research
	Total sub-fixturesTotal sensors
IDENTIFY_DEVICE	All LED channels ON at max power to identify the
	fixture
DMX_START_ADDRESS	To read / set the DMX address
SOFTWARE_VERSION_LABEL	Software version ID
SUPPORTED_PARAMETERS	List of all supported parameters
PARAMETER_DESCRIPTION	Description / details of Manufacturer Specific parameter as "NO DMX ACTION"
DMX_PERSONALITY	To set the DMX mode
DMX_PERSONALITY_DESCRIPTION	Description / details of the DMX mode
DEVICE_MODEL_DESCRIPTION	Description / details of the Fixture model
MANUFACTURER_LABEL	Producer ID
SENSOR DEFINITION, SENSOR VALUE	Description / values of sensors
	NSORS
1: Led Temperature	LED temperature
2: Micro Temperature	Micro controller temperature
3: Driver 1 Temperature	Output 1 and 2 of LED Driver board temperature
4: Driver 2 Temperature	Output 3 and 4 of LED Driver board temperature
	TURER-SPECIFIC PIDs
NO DMX ACTION	To set the desired fixture's behavior in case DMX
	signal is missing or not available.
	1 = Black-out
	2 = CHPR as per display menu AUTO > CHPR
	3 = RGB @ 100% (White channel OFF) 4 = CUSTOM:
	NO DMX CUSTOM RED
	0 ÷ 255 (Default = 255)
	NO DMX CUSTOM GREEN
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255)
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255)
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255)
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15)
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CUSTOM CCT
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default)
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default) 1 = 2700K
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default)
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default) 1 = 2700K 2 = 3000K 3 = 3200K 4 = 3500K
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default) 1 = 2700K 2 = 3000K 3 = 3200K 4 = 3500K 5 = 4000K
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default) 1 = 2700K 2 = 3000K 3 = 3200K 4 = 3500K 5 = 4000K 6 = 4500K
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default) 1 = 2700K 2 = 3000K 3 = 3200K 4 = 3500K 5 = 4000K
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default) 1 = 2700K 2 = 3000K 3 = 3200K 4 = 3500K 5 = 4000K 6 = 4500K 7 = 5000K 8 = 5600K 9 = 6000K
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default) 1 = 2700K 2 = 3000K 3 = 3200K 4 = 3500K 5 = 4000K 6 = 4500K 7 = 5000K 8 = 5600K 9 = 6000K 10 = 6500K
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default) 1 = 2700K 2 = 3000K 3 = 3200K 4 = 3500K 5 = 4000K 6 = 4500K 7 = 5000K 8 = 5600K 9 = 6000K 10 = 6500K 11 = 7000K
	NO DMX CUSTOM GREEN 0 ÷ 255 (Default = 255) NO DMX CUSTOM BLUE 0 ÷ 255 (Default = 255) NO DMX CUSTOM WHITE 0 ÷ 255 (Default = 255) NO DMX CUSTOM SHUTTER 0 ÷ 255 (Default = 15) NO DMX CUSTOM DIMMER 0 ÷ 255 (Default = 255) NO DMX CUSTOM CCT 0 = OFF (Default) 1 = 2700K 2 = 3000K 3 = 3200K 4 = 3500K 5 = 4000K 6 = 4500K 7 = 5000K 8 = 5600K 9 = 6000K 10 = 6500K

11- FIRMWARE UPDATING

To update the firmware release of the PROFILO LED 200 FC you need:

- DTS Dongle Firmware Uploader (code 03.LA.206).
- "DTS Firmware Upgrade Utility v.2.02" program installed on PC.
- Latest firmware release available for PROFILO LED 200 FC unit.

Updating the firmware release.

Please follow the procedure below to perform the update:

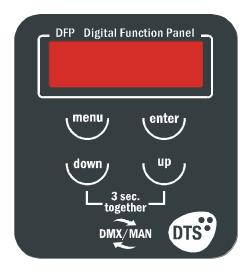
- 1. Connect the DTS Dongle Firmware Uploader to a spare USB port on the PC.
- 2. Connect the unit DMX input to the DTS Dongle Firmware Uploader DMX output with a standard DMX cable and turn ON the unit.
- 3. Send the new firmware release into the unit by using "DTS Firmware Upgrade Utility v.2.02" program. At the end of the procedure, the unit will reset.

For more information please refer to an authorised DTS service centre.

12- DISPLAY FUNCTIONS

The PROFILO LED 200 FC display panel shows all the available control menus. Using these options, it is possible to change the fixture's setting.

Changing the DTS settings can vary the functions of the unit so that it does not respond to the DMX 512 used to control it. Carefully follow the instructions below before carrying out any variations or selections.



MENU	To access the control menus in the display panel.
	 To return to the previous level in the menu structure without
	making a change.
	To exit the menus.
ENTER	To select any required menu.
	To confirm any changes.
UP / DOWN	To navigate the menus structure.
	To change any value.

FIRMWARE RELEASE	1.00
RDM Device Model ID	0x0D4F
DMX Personality IDs	0x01 "RGBW 10 chans"
	0x02 "RGBW 4 chans"
	0x03 "RGBW 6 chans"
	0x04 "RGBW FINE 10 chans"

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
8158	Po5 I	88		Display normal orientation for floor mounting position (Default)
		88		Display inverted orientation for suspended mounting position
-	5668	oFF		Display always ON (Default)
				Display goes OFF after 10 seconds
NodE	10 cH			Allows to select 10 DMX channels mode (Default)
	4 cH			Allows to select 4 DMX channel
-	<u>-</u>			Mode Allows to select 6 DMX channel
-	FinE			mode Allows to select FINE mode (10
LEd	5NEH	oFF-20		DMX channels) Allows to select the value of the delay (in milliseconds) for Dimmer channel reaction to DMX or Program variation. Off = Instant response to DMX variation. 4 = 100 ms Smooth response to
				DMX variation (Default) 20 = 500 ms Smooth response to DMX variation.
	coNP	9 u R d		Allows to select Quadratic current for linear light output (Default)
		LInE		Allows to select Linear current output
	54nc	6 10-5000		Allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings. Default = 610 Hz
	65E	on		Allows to increase the LED's
		oFF		current from 70% to 100% Default = ON
Ruto	сНРг	<u> 5988</u>	<u> :-3600</u>	Automatic mode without DMX controller.
	5EEP 0 1-16	URIE	i-3600	Chase with 16 steps previously created in REC mode. Speed time and wait time values (in seconds) selectable by user (Default = 10). In Auto mode the unit do generate DMX for slave units.
	cPO I	r E d	0-255	16 customizable Colour Macros. RGBW values selectable by user
	c P 15	<u> </u>	<u>0-255</u> 0-255	(Default = 255).
	rRIn	UHIE SPEE	1-3600	Rainbow colours effect. Speed time value (in seconds) selectable by user (Default = 10).
	cUO I			28 Colour Macros as on DMX channel 9 (MACRO COLOR). Default = 01
	cÜ28			
	ccb	2700		12 White color temperature from 2700K to 8000K as on DMX channel 8 (CCT). Default = 2700K
	1100	8000		Dimmer level selectable by user
	- 31NN			as on DMX channel 6 (DIMMER) Default = 255
	5HuE			Shutter level selectable by user as on DMX channel 5 (SHUTTER) Default = 15
	E5c			Esc from automatic mode.

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
rEc	I∏cH	- [] -		In DMX Recorder mode it is possible to create and store the
		ΠΟΟ Ι		scenes of the CHPR menu by
				using an external DMX controller. The unit must be set to 10 DMX
		NO 16		channels mode.
SLAU	SurE	SLU		Refer to "REC MODE" at page 16. Slave mode.
	שיטר ב	760		The unit is forced to DMX address 1 and 10 DMX channels mode
				receiving signal from the unit set in
		FSc		Auto mode. Esc from slave mode
FAn		<u> </u>		Allows to select the internal fans
	<u>55d</u> 51L			speed.
	DIL			Standard mode: High fans speed. Silent mode: Low fans speed for a
				very low noise operation. Default = STD
ndNH	LANH			No DMX action.
'''				Keep last valid DMX signal (Default)
	сНРг	SPFF	1-3600	Chase with 16 steps previously
		<u> </u>	1-3600 1-3600	created in REC mode. Speed time and wait time values
		5 * * * 5		(in seconds) selectable by user (Default = 10).
				,
	100			RGB @ 100% (White channel (OFF)
	cu5Ł	rEd	0-255	Custom. RGBW level selectable by user
		5-EE	0-255	Default = 255
		bLυE	0-255	Shutter level selectable by user as
			0-255	on DMX channel 5 (SHUTTER)
		5XJL	0-255	Default = 15
		9100	0-255	Dimmer level selectable by user as on DMX channel 6 (DIMMER)
		ccb	oFF	Default = 255
			2700	12 White color temperature from
				2700K to 8000K as on DMX channel 8 (CCT).
			8000	Default = OFF
	oFF			Black-out
8F5E EENP	<u> </u>			To restore default settings
EENP	ĽĒď	<u> </u>		LED temperature monitoring
	ΠΙςς	025.0		Micro controller temperature monitoring
	drU l	025.0		Output 1 and 2 of LED Driver board temperature monitoring
	d-U2	025.0		Output 3 and 4 of LED Driver
FIUE		0 0 0.0		board temperature monitoring Shows the total unit life time and
	<u></u>			the RGBW LEDs life time
	<u> </u>			
	<u> </u>			
SoFE	<u>unlt</u> u. 1.00			Software version

13- REC MODE

DMX Recorder mode

For the programming of ChPr by using a DMX controller, besides the 10 channels necessary to control the unit a further 3 DMX channels are needed.

So that in RECORDER mode (via DMX) the unit will need 15 channels to be correctly programmed.

The three new DMX channels are:

DMX channel 11 = SCENES channel

From 0-10 = no function (r001)

From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 12 = EDIT channel:

- -From 0-19 = no function
- -From 20-234 the unit runs the configuration given by the received input DMX values.

With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.

-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene.

With the channel REC it is possible to record the selected scene as last scene.

DMX channel 13 = RECORDING channel

Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded). It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed.

14- MANUAL MODE

Manual mode can be activated by pressing at the same time 'UP' and 'DOWN' keys on unit display for 3 seconds (A001).

In Manual mode it is possible to select:

rEd	0-255	RGBW level selectable by user Default = 255
GrEE	0-255	Doladit = 255
bLuE	0-255	
UHIE	0-255	
5HuE	0-255	Shutter level selectable by user as on DMX channel 5 (SHUTTER) Default = 15
9100	0-255	Dimmer level selectable by user as on DMX channel 6 (DIMMER) Default = 255
cct	oFF 2700 8ñnn	12 White color temperature selection from 2700K to 8000K as on DMX channel 8 (CCT). Default = OFF
E5c		Esc from Manual mode

When Manual mode is active, unit switch OFF/ON cycle will maintain Manual Mode selection.

In Manual mode the DMX signal is ignored.

15- ERROR MESSAGES

ERROR SHOWED ON DISPLAY	APPEARS WHEN
LEd SEnSor Error	LED thermal sensor damaged (open or in
	short circuit).
	Unit immediately goes in black-out.
LEd ouErtENPErRturE	LED temperature detected over 70°C.
	Unit immediately goes in black-out.
Nicro SEnSor Error	Micro controller thermal sensor damaged
	(open or in short circuit).
	Unit immediately goes in black-out.
Nicro ouErtENPErAturE	Micro controller temperature detected over
	70°C.
	Unit immediately goes in black-out.
dru i Sensor Error	Thermal sensor on outputs 1 and 2 of LED
	Driver board damaged (open or in short
	circuit). Unit immediately goes in black-out.
dru i ouErtENPErAturE	Temperature detected over 70°C on
	outputs 1 and 2 of LED Driver board.
	Unit immediately goes in black-out.
drU2 5En5or Error	Thermal sensor on outputs 3 and 4 of LED
	Driver board damaged (open or in short
	circuit). Unit immediately goes in black-out.
drU2 ouErtENPErAturE	Temperature detected over 70°C on
	outputs 3 and 4 of LED Driver board.
	Unit immediately goes in black-out.

16- DMX PROTOCOL

FIRMWARE RELEASE	1.00
RDM Device Model ID	0x0D4F
DMX Personality IDs	0x01 "RGBW 10 chans"
_	0x02 "RGBW 4 chans"
	0x03 "RGBW 6 chans"
	0x04 "RGBW FINE 10 chans"

10 CHANNELS MODE (Default)

- 1 RED
- 2 GREEN
- 3 BLUE
- 4 WHITE
- 5 SHUTTER
- 6 DIMMER
- 7 DIMMER FINE
- 8 CCT
- 9 MACRO COLOR
- 10 FUNCTIONS

Ch	Name	DMX levels	
1	RED	0255	Proportional color from min to max
2	GREEN	0255	Proportional color from min to max
3	BLUE	0255	Proportional color from min to max
4	WHITE	0255	Proportional color from min to max
5	SHUTTER	09	Black-out
		1019	Open
		2029	Black-out
		30119	Strobe (da 3,27 s a 30 ms)
		120149	Pulse up (da 42,6 s a 120 ms)
		150179	Pulse down (da 42,6 s a 120 ms)
		180204	Random strobe (RGBW, CCT, Macro, Dimmer, Dimmer Fine active)
		205229	Independent random strobe (Dimmer, Dimmer Fine active)
		230235	Single flash 30 ms (RGBW, CCT, Macro, Dimmer, Dimmer Fine active)
		236255	Open
6	DIMMER	0255	Proportional dimmer from min to max
7	DIMMER FINE	0255	Proportional dimmer from min to max
8	CCT	0.009 — No func. 010 — 2700K 033 — 3000K 055 — 3200K 077 — 3500K 099 — 4000K 121 — 4500K 143 — 5000K 165 — 5600K 187 — 6000K 209 — 6500K 232 — 7000K	Linear color temperature correction from 2700K to 8000K. Relevant CCT (Correlated Color Temperature) values: 10 = 2700K 33 = 3000K 55 = 3200K 77 = 3500K 99 = 4000K 121 = 4500K 143 = 5000K 165 = 5600K 187 = 6000K 209 = 6500K 232 = 7000K 255 = 8000K

C h	Name		DMX levels
9	MACRO COLOR	009	No function
		1020	1: GEL FILTER NO.19 "FIRE" (R255 G15 B0 W0 caΠP=LInE) (R255 G62 B0 W0 caΠP=9uAd)
		2125	2: GEL FILTER NO.20 "MEDIUM AMBER" (R231 G80 B0 W0 coffP=LInE) (R243 G143 B0 W0 coffP=9uRd)
		2630	3: GEL FILTER NO.25 "SUNSET RED" (R231 G39 B1 W0 coffP=LInE) (R243 G100 B16 W0 coffP=9uRd)
		3135	4: GEL FILTER NO.68 "SKY BLUE" (R0 G255 B109 W28 co们P=LInE) (R0 G255 B167 W85 coႶP=9uAd)
		3640	5: GEL FILTER NO.101 "YELLOW" (R255 G135 B0 W0 coΠP=LInE) (R255 G186 B0 W0 coΠP= 9υAd)
		4145	6: GEL FILTER NO.104 "DEEP AMBER" (R255 G117 B0 W0 caΠP=LinE) (R255 G173 B0 W0 caΠP= 9 μAd)
		4650	7: GEL FILTER NO.105 "ORANGE" (R255 G68 B0 W0 caΠP=LinE) (R255 G132 B0 W0 caΠP= 9uAd)
		5155	8: GEL FILTER NO.106 "PRIMARY RED" (R255 G0 B0 W0 coffP=LinE) (R255 G0 B0 W0 coffP=9uRd)
		5660	9: GEL FILTER NO.111 "DARK PINK" (R247 G10 B0 W96 coffP=LinE) (R251 G51 B0 W157 coffP=9uRd)
		6165	10: GEL FILTER NO.113 "MAGENTA" (R255 G5 B4 W19 coffP=LinE) (R255 G36 B32 W0 coffP= 9uRd)
		6670	11: GEL FILTER NO.117 "STEEL BLUE" (R56 G110 B0 W255 coffP=LinE) (R120 G168 B0 W255 coffP=9uRd)
		7175	12: GEL FILTER NO.118 "LIGHT BLUE" (R0 G230 B44 W23 call P=LlnE) (R0 G243 B106 W77 call P=9 uRd)
		7680	13: GEL FILTER NO.122 "FERN GREEN" (R107 G255 B0 W30 coffP=LInE) (R166 G255 B0 W88 coffP=9uAd)
		8185	14: GEL FILTER NO.126 "MAUVE" (R255 G0 B40 W0 coffP=LinE) (R255 G0 B101 W0 coffP= qufid)
		8690	15: GEL FILTER NO.132 "MEDIUM BLUE" (R0 G255 B95 W0 coffP=LinE) (R0 G255 B156 W0 coffP= 9ufld)
		9195	16: GEL FILTER NO.136 "PALE LAVANDER" (R255 G75 B0 W255 coffP=LinE) (R255 G139 B0 W255 coffP=Qufid)
		96100	17: GEL FILTER NO.137 "LAVANDER" (R255 G189 B52 W255 coΠP=LInE) (R255 G218 B115 W255 coΠP=quAd)
		101105	18: GEL FILTER NO. 138 "PALE GREEN" (R255 G177 B0 W45 coΠP=LinE) (R255 G213 B0 W107 coΠP=9μAd)
		106110	19: GEL FILTER NO.139 "PRIMARY GREEN" (R26 G255 B0 W0 coffP=LinE) (R82 G255 B0 W0 coffP=quAd)
		111115	20: GEL FILTER NO.147 "APRICOT" (R255 G80 B0 W22 coffP=LinE) (R255 G143 B0 W75 coffP=9uRd)
		116120	21: GEL FILTER NO.151 "GOLD TINT" (R255 G94 B0 W75 $co\Pi P=LInE$) (R255 G155 B0 W139 $co\Pi P= q_u H d$)
		121125	22: GEL FILTER NO.154 "PALE ROSE" (R224 G90 B0 W85 $co\Pi P = LinE$) (R239 G152 B0 W148 $co\Pi P = q_u H d$)
		126130	23: GEL FILTER NO.156 "CHOCOLATE" (R255 G98 B0 W50 cafiP=LinE) (R255 G158 B0 W113 cafiP=qufid)
		131135	24: GEL FILTER NO. 181 "CONGO BLUE" (R37 G57 B240 W0 callP=LinE) (R97 G121 B248 W0 callP=QuRd)
		136140	25: GEL FILTER NO.200 "DOUBLE CT BLUE" (R23 G128 B51 W104 coffP=LinE) (R77 G181 B114 W163 coffP=quAd)
		141145	26: GEL FILTER NO.201 "FULL CT BLUE" (R0 G16 B0 W255 callP=LinE) (R0 G64 B0 W255 callP=quAd)
		146150	27: GEL FILTER NO.204 "FULL CT ORANGE" (R255 G102 B0 W25 callP=LinE) (R255 G162 B0 W80 callP=QuRd)
		151155	28: GEL FILTER NO.341 "PLUM" (R255 G46 B0 W173 coffP=LinE) (R255 G109 B0 W210 coffP=9uAd)
		156235	RESERVED
		236237	RGB RAINBOW COLOR MIXING: SPEED 1 (6 SEC.)
		238239	RGB RAINBOW COLOR MIXING: SPEED 2 (15 SEC.)
		240241	RGB RAINBOW COLOR MIXING: SPEED 3 (30 SEC.)
		242243	RGB RAINBOW COLOR MIXING: SPEED 4 (45 SEC.)
		244245	RGB RAINBOW COLOR MIXING: SPEED 5 (60 SEC.)
		246247	RGB RAINBOW COLOR MIXING: SPEED 6 (120 SEC.)
		248249	RGB RAINBOW COLOR MIXING: SPEED 7 (150 SEC.)
		250255	RGB RAINBOW COLOR MIXING: SPEED 8 (180 SEC.)

Ch	Name		DMX levels
10	FUNCTIONS (staying	09	No function
	on desired option for 5 seconds)	1024	SMOOTH OFF
	,	2526	SMOOTH 1 (25 ms)
		2728	SMOOTH 2 (50 ms)
		2930	SMOOTH 3 (75 ms)
		3132	SMOOTH 4 (100 ms) (DEFAULT)
		3334	SMOOTH 5 (125 ms)
		3536	SMOOTH 6 (150 ms)
		3738	SMOOTH 7 (175 ms)
		3940	SMOOTH 8 (200 ms)
		4142	SMOOTH 9 (225 ms)
		4344	SMOOTH 10 (250 ms)
		4546	SMOOTH 11 (275 ms)
		4748	SMOOTH 12 (300 ms)
		4950	SMOOTH 13 (325 ms)
		5152	SMOOTH 14 (350 ms)
		5354	SMOOTH 15 (375 ms)
		5556	SMOOTH 16 (400 ms)
		5758	SMOOTH 17 (425 ms)
		5960	SMOOTH 18 (450 ms)
		6162	
		6364	SMOOTH 19 (475 ms)
			SMOOTH 20 (500 ms)
		6574	GAMMA CORRECTION ($co \Pi P$) QUADRATIC (DEFAULT)
		7584	GAMMA CORRECTION (coff) LINEAR
		85104	OUTPUT FREQUENCY 610 Hz (DEFAULT)
		105	OUTPUT FREQUENCY 800 Hz
		106	OUTPUT FREQUENCY 1000 Hz
		107	OUTPUT FREQUENCY 1500 Hz
		108	OUTPUT FREQUENCY 2000 Hz
		109	OUTPUT FREQUENCY 2500 Hz
		110	OUTPUT FREQUENCY 3000 Hz
		111	OUTPUT FREQUENCY 3500 Hz
		112	OUTPUT FREQUENCY 4000 Hz
		113	OUTPUT FREQUENCY 4500 Hz
		114	OUTPUT FREQUENCY 5000 Hz
		115134	RESERVED
		135144	BOOST ON (DEFAULT)
		145154	BOOST OFF
		155164	DISPLAY STAND-BY OFF (DEFAULT)
		165174	DISPLAY STAND-BY ON
		175176	NO DMX ACTION - KEEP LAST DMX (DEFAULT)
		177178	NO DMX ACTION - Black-out
		179180	NO DMX ACTION - RGB @ 100% (White channel OFF)
		181182	NO DMX ACTION – CHPR (PROGRAM STEPS 0116) WAIT and SPEED time selectable via NDMX > CHPR menu
		183184	NO DMX ACTION – CUSTOM (RGBW, CCT, Dimmer, Zoom values selectable via NDMX > CUSTOM menu or via RDM Custom PIDs
		185194	RESERVED
		195204	RESERVED
		205214	RESERVED
		215224	RESERVED
			t e e e e e e e e e e e e e e e e e e e
		225234	RESERVED
			RESERVED FAN STANDARD MODE

Ch	Name	DMX levels		DMX levels	
10	FUNCTIONS (staying on desired option for 5 seconds)	253255	SET DEFAULTS VALUES FOR FUNCTIONS: SMOOTH = 4 (100 ms) GAMMA CORRECTION (\$\sigma n P\$) = QUADRATIC OUTPUT FREQUENCY = 610 Hz BOOST = ON DISPLAY STAND-BY = OFF NO DMX ACTION = KEEP LAST DMX FAN MODE = SILENT		

4 CHANNELS MODE

- 1 RED
- 2 GREEN
- 3 BLUE
- 4 WHITE

Ch	Name	DMX levels	
1	RED	0255	Proportional color from min to max
2	GREEN	0255	Proportional color from min to max
3	BLUE	0255	Proportional color from min to max
4	WHITE	0255	Proportional color from min to max

6 CHANNELS MODE

- 1 RED
- 2 GREEN
- 3 BLUE
- 4 WHITE
- 5 SHUTTER
- 6 DIMMER

Ch	Name	DMX levels	
1	RED	0255	Proportional color from min to max
2	GREEN	0255	Proportional color from min to max
3	BLUE	0255	Proportional color from min to max
4	WHITE	0255	Proportional color from min to max
5	SHUTTER	09	Black-out
		1019	Open
		2029	Black-out
		30119	Strobe (da 3,27 s a 30 ms)
		120149	Pulse up (da 42,6 s a 120 ms)
		150179	Pulse down (da 42,6 s a 120 ms)
		180204	Random strobe (RGBW, CCT, Macro, Dimmer, Dimmer Fine active)
		205229	Independent random strobe (Dimmer, Dimmer Fine active)
		230235	Single flash 30 ms (RGBW, CCT, Macro, Dimmer, Dimmer Fine active)
		236255	Open
6	DIMMER	0255	Proportional dimmer from min to max

"FINE" MODE (10 CHANNELS)

- 1 RED
- 2 RED FINE
- 3 GREEN
- 4 GREEN FINE
- 5 BLUE
- 6 BLUE FINE
- 7 WHITE
- 8 WHITE FINE
- 9 DIMMER
- 10 DIMMER FINE

Ch	Name	DMX levels	
1	RED	0255	Proportional color from min to max
2	RED FINE	0255	Proportional color from min to max
3	GREEN	0255	Proportional color from min to max
4	GREEN FINE	0255	Proportional color from min to max
5	BLUE	0255	Proportional color from min to max
6	BLUE FINE	0255	Proportional color from min to max
7	WHITE	0255	Proportional color from min to max
8	WHITE FINE	0255	Proportional color from min to max
9	DIMMER	0255	Proportional dimmer from min to max
10	DIMMER FINE	0255	Proportional dimmer from min to max

NOTES



DTS products are designed and manufactured at the DTS plants in Italy



DTS quality system is certified to the ISO 9001:2015 standard

